The pImpl Idiom Exercises

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Interface/Implementation Separation

- Why is separating the interface of a class from its implementation important in object-oriented programming?

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C++ class organization

- Why is it difficult to completely separate the interface and implementation of a C++ class?
- What problems can this cause when compiling large applications?

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The Handle-Body pattern

- What is the the Handle-Body pattern?

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The pImpl Idiom

- What is the pImpl idiom?

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The pImpl Idiom

- How does the pImpl idiom help with the separation problem?

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Pros and cons

- What other advantages does the pImpl idiom have when compiling and distributing large applications?
- What disadvantages does it have?

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pImpl with unique_ptr

- Write a simple program that uses the pImpl idiom with unique_ptr
- Your program should organize the code in the usual way (class definition in header file, member function definitions in source file)

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